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Mr. Babington has also recently published a Supplement to his 'Flora Bathoniensis,' containing numerous additions to that little work.

PROCEEDINGS OF LEARNED SOCIETIES.

ZOOLOGICAL SOCIETY.

Mr. Waterhouse exhibited a new species of Hare from the collection made for the Society by the late Mr. Douglas, and proposed to characterize it under the name of *Lepus Bachmani*: he thought it probable that the species had been brought from California. It was thus described:

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Dimensions.	in.	lines.
Length	10	0
Tarsus	3	0
Tail and fur	1	3
Ear externally	2	8
Nose to ear	2	51

Habitat S.W. coast of N. America, probably California.

"This animal may possibly not be adult; but neither in the teeth. so far as can be ascertained from a stuffed specimen, nor in the character of the fur, can I see any reason for believing it young, excepting that it is much under the ordinary size of the species of the genus to which it belongs; and although it may not be adult, it certainly is not a very young animal. Compared with Lep. palustris, with which species it was sent over by Mr. Douglas, it presents the following points of distinction. Although the present animal is not above one-third of the size of that species, the ears measure nearly a quarter of an inch more in length: in fact, they are here longer than the head, whereas in Lep. palustris they are much shorter. The next most important difference is in the feet,-which instead of having comparatively short and adpressed hairs which do not conceal the claws, are in Lep. Bachmani long and woolly, especially on the under part, and not only conceal the claws, but extend upwards of a quarter of an inch beyond their tips. The claws are more slender and pointed, especially those of the fore-feet. Besides these differences there are some others, which perhaps may be considered of minor importance: the fur is much softer and more dense; the longer hairs are extremely delicate, whilst in Lep. palustris they are harsh. As regards the colour, Lep. palustris has a very distinct rich yellow tint, which is not observed in the present species, the pale annulations of the hairs which produce the yellow tint, being replaced by brownish white or pale brown."

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The bones of the *Apteryx* are not perforated for the admission of air, nor do they exhibit the pure white colour which characterizes the skeleton in other birds; their tough and somewhat coarse texture resembles rather that of the bones of the lizard tribe.

The spinal column was found to consist of 15 cervical and 9 dorsal *vertebræ*, and 22 in the lumbar, sacral, and caudal regions. The third to the sixth, inclusive, of the dorsal *vertebræ*, are slightly anchylosed together by the contiguous edges of their spinous processes; but Mr. Owen supposes that notwithstanding this *anchylosis*, a yielding, elastic movement may still take place between these *vertebræ*.

The cervical *vertebræ* present all the peculiarities of the type of Birds; the inverted bony arch for the protection of the carotid arteries, is first seen developed from the inner side of the inferior transverse processes of the twelfth cervical *vertebra*, but the two sides of the arch are not anchylosed together.

The sternum is reduced to its lowest grade of development in the *Apteryx*. In its small size, and in the total absence of a keel, it resembles that of the struthious birds, but differs in the presence of two subcircular perforations, situated on each side of the middle line, in the wide anterior emargination, and in the much greater extent of the two posterior fissures. The anterior margin presents no trace of a manubrial process, as in the Ostrich, the interspace between the articular cavities of the coracoid being, on the contrary, deeply concave.

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"In the broad ribs (see the Cassowary), in the general freedom of anchylosis in the dorsal region of the vertebral column, and the numerous vertebræ of the neck, we again meet with struthious characters; and should it be objected to the latter particular, that some Palmipeds surpass the Ostrich in the number of cervical vertebræ, yet these stand out rather as exceptions in their particular order; while an excess over the average number of cervical vertebræ in birds is constant in the struthious or Brevipennate order. Thus in the Cassowary 19 vertebræ precede that which supports a rib connected with the sternum, and of these 19 we may fairly reckon 16 as analogous to the cervical vertebræ in other birds. In the Rhea there are also 16 cervical vertebræ, and not 14, as Cuvier states. In the Ostrich there are 18, in the Emeu 19 cervical vertebræ. In the Apteryx we should reckon 16 cervical vertebræ if we included that which supports the short rudimental but moveable pair of ribs. Of the 22 true grallatorial birds cited in Cuvier's Table of the Number of Vertebræ, only 9 have more than 14 cervical vertebræ; while the Apteryx with 15 cervical vertebræ, considered as a struthious bird, has the fewest of its order. The free bony appendages of the ribs, and the universal absence of air-cells in the skeleton, are conditions in which the Apteryx resembles the Aptenodites, but here all resemblance ceases : the position in which the Apteryx was originally figured † is incompatible with its organization.

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^{*} Leçons d'Anat. Comp. 1836. iv. p. 291.

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A living specimen of the *Gymnotus electricus*, from the Amazon, was exhibited by Mr. Porter.

September 11th, 1838 .- Lieut. Col. Sykes, in the Chair.

Some notes were read by the Chairman upon three skins of digitigrade *carnivora*, which were on the table for exhibition : one of these was a beautiful skin of the *Aguara Guazu* of Azara, (*Canis jubatus*, Desm.) and the other two, those of the *Felis Pardina*, Temm., in an adult and nonadult state. Respecting the first of these Col. Sykes offered the following observations :

"Azara in his preliminary notices of the two species of Canis, C. jubatus and C. Azaræ, says, I prefer for the family the Spanish names of Zorro or Fox to the Guaranese name Aguara, which also means fox; and he accordingly heads the notices with the words 'Zorros or Foxes.' The C. jubatus, measuring 5 feet to the tail, and the tail of which is 19 inches, is certainly a Brobdignag Fox. I mention this circumstance in illustration of the fact, that Azara, in his classification, appears to have overlooked analogies. And this remissness I hope will authorize me, without the imputation of presumption, in venturing upon the remarks I am about to make.

"The skin I put before the Society is that of Azara's Canis jubatus, and as it and a fellow skin in my possession are the only specimens of the kind in England (indeed I believe there are only two other specimens in Europe, one in Paris, the other in Cadiz), and as it will most probably have been seen but by few of the gentlemen present, I shall be happy to find that its exhibition is acceptable. Azara states that the Canis jubatus has 6 incisors in the upper jaw, then on either side of a vacant space follow 2 canines and 6 molar teeth, three of which, however, look more like incisors than molars; the lower jaw is in all respects similar to the upper, except that the interval is wanting between the canine teeth and the incisors, and there is one additional molar tooth; in other respects the form and general character of these animals are those of the Dog : they differ, however, chiefly in being unsociable and nocturnal. The tail is much thicker and more bushy, and they never raise or curl it; the body and neck are shorter and covered with longer fur; the neck is also thicker; the hair too is thicker; the eye is smaller, the face flatter; the head

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"Azara in his preliminary notices of the two species of Canis, C. jubatus and C. Azaræ, says, I prefer for the family the Spanish names of Zorro or Fox to the Guaranese name Aguara, which also means fox; and he accordingly heads the notices with the words 'Zorros or Foxes.' The C. jubatus, measuring 5 feet to the tail, and the tail of which is 19 inches, is certainly a Brobdignag Fox. I mention this circumstance in illustration of the fact, that Azara, in his classification, appears to have overlooked analogies. And this remissness I hope will authorize me, without the imputation of presumption, in venturing upon the remarks I am about to make.

"The skin I put before the Society is that of Azara's Canis jubatus, and as it and a fellow skin in my possession are the only specimens of the kind in England (indeed I believe there are only two other specimens in Europe, one in Paris, the other in Cadiz), and as it will most probably have been seen but by few of the gentlemen present, I shall be happy to find that its exhibition is acceptable. Azara states that the Canis jubatus has 6 incisors in the upper jaw, then on either side of a vacant space follow 2 canines and 6 molar teeth, three of which, however, look more like incisors than molars; the lower jaw is in all respects similar to the upper, except that the interval is wanting between the canine teeth and the incisors, and there is one additional molar tooth; in other respects the form and general character of these animals are those of the Dog : they differ, however, chiefly in being unsociable and nocturnal. The tail is much thicker and more bushy, and they never raise or curl it; the body and neck are shorter and covered with longer fur; the neck is also thicker; the hair too is thicker; the eye is smaller, the face flatter; the head

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A specimen of the *Alauda Calandra*, Linn., from Andalusia, was afterwards exhibited by Col. Sykes, accompanied with the following notice:

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LONDRA. Genus novum.

Rostrum crassum; capitis longitudinem æquans; basi altum, subcompressum; maxilla arcuata; tomiis integerrimis.

Nares plumis anticum versus tectæ.

Alæ corpore longiores, acuminatæ; remigibus, primâ sub-abbreviatâ, tertiâ longissimâ, secundâ et quartâ ferè æqualibus; reliquis gradatìm brevioribus.

Cauda cuneata.

Pedes robusti ; unguis hallucis rectus elongatus.

Typus est, Alauda Calandra.

"The specific characters of *Londra Calandra* as published are sufficiently accurate.

"The following are the measurements of a male bird; and as I have seen many scores of them, I think I may say they would apply to the generality of individuals of the species.

"Length, from the tip of the bill to the rump, 5 inches; bill, $\frac{1}{2}$; tail, $2\frac{1}{2}$ inches; tibia, $1\frac{1}{2^{1}\sigma}$; tarsi, including nail, $1\frac{1}{2^{1}\sigma}$; hind claw, $\frac{1}{2}\frac{1}{2}$ inches; liver of two lobes, one much longer than the other; gall-bladder fully developed; spleen cylindrical, $\frac{1}{2^{1}\sigma}$ inch; intestines, $9\frac{1}{2^{1}\sigma}$ inches; duodenum very wide; small intestines narrow; cæca, $\frac{1}{2^{1}\sigma}$, little more than oblong specks; colon, $\frac{1}{2}$ inch long; gizzard very small; but digastric muscle, $\frac{3}{2^{1}\sigma}$ inch thick; testes very large, nearly globular; irides black. These birds are fed upon canary seed in Andalusia, but in Lisbon they are fed upon wheat; nevertheless they are fond of raw meat, flies, and worms. They are soon accustomed to confinement, and they sing unconcernedly, although surrounded by spectators; their notes, some of which are-a kind of double-tongueing in the phrase of flute players, are remarkably rich and full."

Mr. Blyth made some remarks on the plumage and progressive changes of the Crossbills, stating that, contrary to what has generally been asserted, neither the red nor saffron-tinted garb is indicative of any particular age. He had known specimens to acquire a second time the red plumage, and that much brighter than before; and he exhibited to the Meeting two individuals recently shot from a flock in the vicinity of the metropolis, which were exchanging their striated nestling feathers for the saffron-coloured dress commonly described to be never acquired before the second moulting.

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The reading of a paper by Richard Owen, Esq., on the Osteology of the *Marsupialia*, was commenced.

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He also exhibited a Linnet killed during the height of the breeding season, when the crown and breast of that species are ordinarily bright crimson, in which those parts were of the same hue as in many Crossbills; and observed that the same variations were noticeable in the genera *Corythraix* and *Erythrospiza*. Mr. Blyth called attention also to the fact, that in the genus *Linota* the females occasionally assumed the red breast, supposed to be peculiar to the other sex, and that they continue to produce eggs when in this livery; a circumstance very apt to escape attention, as most naturalists would at once conclude such specimens to be males without further examination.

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by dissection, the Sooty Monkey, at least, is destitute of laryngeal sacs, (but has large cheek pouches) and we may readily infer the same of the other species, its immediate ally. The relationship, as it appears to us, between these two animals and the Indian Macaci, is that of representation. They have not indeed the muzzle so produced and the supra-orbital ridge so developed as in the Macaci; but in these points they exceed the African Guenons generally, and are also we think stouter in their proportions. They appear, indeed, to constitute a form, intermediate between the Macaci and Cercopitheci, on the one hand; as are the Colobi between the Semnopitheci and Cercopitheci on the other. What the Colobi of Africa are to the Semnopitheci, these two monkeys (and others have perhaps to be added) are to the Macaci. With respect to the genus Cercocebus, I should be inclined to restrict it, excluding from it the Grivet and Green Monkeys, and modify its characters accordingly, taking the Sooty and White-eyelid Monkeys as its typical examples, a plan which, it appears to me, is preferable to the creation of a new generic title, which often leads to confusion."

Mr. Owen exhibited a preparation of the *ligamentum teres* in the Coypou, which he had received from Mr. Otley of Exeter.

TWEEDSIDE PHYSICAL AND ANTIQUARIAN SOCIETY.

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From Mr. Herman, London.—Magnificent tiger skin. The animal, when alive, must have measured fully 11 feet from tip to tip.

From Mr. Wilkie of Ladythorn.—Three fine specimens of foreign shells (Pearl Nautilus and Leopard Cowries).

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It is always agreeable for us to dwell upon the continued prosperity of the Institution whose proceedings we are now noticing. We have stated, that even the attempt to establish it was creditable to the district, and that it is doubly creditable that it should have been hitherto constantly supported in so efficient a manner by nearly every grade of the community.

We ought to mention that the prospect of the Society's being able to present the new building to the public, free of debt, is daily improving, though not yet fully realized; but as the Institution continues to find additional friends, in proportion as it shows more sure tokens of permanence and usefulness, we do not doubt that at the period of our next report we shall have it in our power to state that the whole of the necessary funds have been collected.

BOTANICAL SOCIETY OF EDINBURGH.

April 11, 1839 .- Prof. Graham, President, in the Chair.

His Majesty Frederick William III. King of Prussia, was elected a Foreign Honorary Member, by unanimous acclamation.

The President read the conclusion of his report on the Progress and State of Botany in Britain during the last twelve months, which we have already had occasion to notice at p. 53 of the present volume.

The Secretary read a communication from Mr. William Gardiner, jun., of Dundee, accompanying a specimen of *Mucor* new to the British Flora, found in the neighbourhood of Dundee in 1836, and supposed by Sir William Hooker to be *Phycomyces splendens* of Fries, or perhaps the *Ulva nitens* of Agardh.

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